

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Addington et al.

Confirmation No.:

Application No.:

Examiner:

Filing Date:

Group Art Unit:

Title: LASER MARKING

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- (X) under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- () under 37 CFR 1.97(c) together with either a:
() Statement under 37 CFR 1.97(e), or
() a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- () under 37 CFR 1.97 (d) together with a:
() Statement under 37 CFR 1.97(e)(1) or (2), and
() a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00 . At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

(X) Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

(X) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

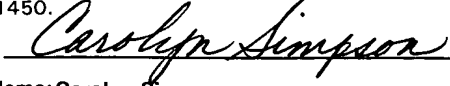
It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. **EV 431601289 US**

Date of Deposit **4/2/2004**

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

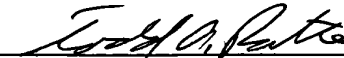
By


Typed Name: Carolyn Simpson

Respectfully submitted,

Addington et al.

By



Todd A. Rathe

Attorney/Agent for Applicant(s)
Reg. No. **38,276**

Date: **4/2/2004**

**CONCISE EXPLANATION OF RELEVANCE OF DOCUMENTS NOT IN THE ENGLISH
LANGUAGE**

JP 2002-205178

PROBLEM TO BE SOLVED: To eliminate damage of a chip itself and an IC circuit due to a marking on CSP or the like with a laser beam and to improve visibility of a marking pattern.

SOLUTION: The method for marking the surface of a silicone chip 118 which is irradiated with a laser beam 116 is provided. By this method, a first irradiation with laser beam under a low energy density, in which the surface is melted and resolidified, and a second irradiation with laser beam under a high energy density, in which a groove is formed on the surface, are used. A pattern 11 is drawn on the surface by either the first irradiation with laser beam or the second irradiation with laser beam, and an area 12, which is a background, is drawn by the other. The low energy density is included within the range of a pulse energy density of 3 to 11 mJ/mm² and the high energy density is included within the range of a pulse energy density of 11 mJ/mm² or larger.

JP 2000-312983

PROBLEM TO BE SOLVED: To obtain a laser marking method for forming fine patterns with excellent atmospheric corrosion resistance on a glass substrate.

SOLUTION: This laser marking method comprises a first step of forming a membrane 2 or adhesion on the surface of a marked material 1 composed of a transparent body or a laser light transmitting body, and a second step of radiating a laser beam LB to the membrane or the adhesion and to form projection and depression on the surface of the marked material in a process for removing the membrane or the adhesion from the marked material. Further, a third step of forming patterns such as character, figure, symbol, barcode, or two-dimensional code on the membrane or the adhesion may be provided between the first step and the second step.

PATENT APPLICATION

Sheet 1 of 2

FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 200313334-1	APPLICATION NO.	CONFIRMATION NO.
APPLICANT Addington et al.			
FILING DATE		GROUP	

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	6,627,299 B1	09/30/2003	Feng et al.	
	1B	6,576,862 B1	06/10/2003	Costin et al.	
	1C	6,022,905	02/08/2000	Harris et al.	
	1D	6,017,972	01/25/2000	Harris et al.	
	1E	5,977,514	11/02/1999	Feng et al.	
	1F	5,897,938	04/27/1999	Shinmoto et al.	
	1G	5,855,969	01/05/1999	Robertson	
	1H	5,719,372	02/17/1998	Togari et al.	
	1I	5,664,497	09/09/1997	Zuniga et al.	
	1J	5,463,200	10/31/1995	James et al.	
	1K	5,175,425	12/29/1992	Spratte et al.	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L	2002-205178	07/23/2002	Mitsuyanagi et al.		
	1M	2000-312983	11/14/2000	Hayakawa		
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	
	1R	
	1S	

EXAMINER	DATE CONSIDERED
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FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
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(Use several sheets if necessary)

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REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	2A	5,075,195	12/24/1991	Babler et al.	
	2B	5,061,341	10/29/1991	Kildal et al.	
	2C	4,922,077	05/01/1990	Gordon	
	2D	4,654,290	03/31/1987	Spanjer	
	2E	4,522,656	06/11/1985	Kuhn-Kuhnenfeld et a	
	2F				
	2G				
	2H				
	2I				
	2J				
	2K				

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	2L					
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	2N					
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	2Q	
	2R	
	2S	

EXAMINER

DATE CONSIDERED